

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-10 (Canceled).

Claim 11 (Currently Amended): A liquid crystal display device, comprising:
a first substrate ;
a second substrate opposing the first substrate;
at least a sealant along a periphery of one of the first and second substrates;
a liquid crystal layer between the first and second substrates, the liquid crystal layer having a photo-reactant material and a liquid crystal material,
wherein the photo-reactant material and the liquid crystal material form a polymer network and are aligned in a first direction by irradiated an ultraviolet (UV) light in curing the sealant ,
wherein the first substrate includes two electrodes in each pixel to supply an electric field in a horizontal direction between two electrodes to the liquid crystal layer,

wherein, when no voltage is applied across the two electrodes, the photo-reactant material and the liquid crystal are aligned in the first direction and, when a voltage is applied across the two electrodes, the liquid crystal and photo-reactant material are arranged according to the applied electric field in the horizontal direction,

wherein, when the voltage is not applied across the two electrodes, the polymer network increases a restoring force to restore the liquid crystal, and

wherein the photo-reactant material and the liquid crystal layer material have a character is aligned and the sealant is simultaneously cured, by irradiating a linearly polarized UV light, wherein the linearly polarized UV light is the same as the UV light for curing the sealant.

Claim 12 (Original): The device according to claim 11, wherein the sealant includes an ultraviolet hardening sealant.

Claim 13 (Original): The device according to claim 11, wherein the sealant includes an ultraviolet and thermo-hardening sealant.

Claim 14 (Original): The device according to claim 11, wherein the photo-reactant material includes one of a photo-reactive polymer and a photo-reactive oligomer.

Claim 15 (Original): The device according to claim 11, further comprising an alignment layer on at least one of the first and second substrates.

Claim 16 (Canceled).

Claim 17 (Original): The device according to claim 11, further comprising a spacer on at least one of the first and second substrates.

Claim 18 (Previously Presented): The device according to claim 17, wherein the spacer includes a column spacer.

Claims 19-23 (Canceled).